Supplementary New Product Information (SNPI)

TEAC

HR-S101   **High-resolution Micro System** (A combination of the AI-101DA and LS-101)

Defining the Micro System,
Stunning Audio Performance for the next generation

■ Main Features

- USB DAC for High-resolution audio playback from a computer
- Bluetooth® aptX® High-quality Wireless Music Streaming
- 26W + 26W of Output Power with Class-D Amplifier
- "HR Loudness" for Stunning Audio Performance by DSP-based technology
- Auto Power Saving mode simplifies power-on/off sequence when connected to a TV, and STB
- Versatile horizontal or vertical layout
- Free Music Player software for Windows/Macintosh (TEAC HR Audio Player)

Brand	TEAC	
Series	Reference series	
Model	HR-S101-BB (Black/Black)	HR-S101-SC (Silver/Cherry)
UPC Code	043774031245	043774031276
EAN Code	4907034219117	4907034219148
Announcement Date	October	
Estimated Delivery Date	Late 2014	
Main Unit Dimensions/NW W x H x D	182 x 53 x 191 / 1.2 (mm/kg) 7.2 x 2.1 x 7.5 / 2.6 (inch/lbs)	
Speaker Dimensions/NW W x H x D (per piece)	116 x 182 x 175 / 1.7 (mm/kg) 4.6 x 7.2 x 6.9 / 3.8 (inch/lbs)	
Package Dimensions/GW W x H x D	355 x 375 x 265 / TBA (mm/kg) 14.0 x 14.8 x 10.4 / TBA (inch/lbs)	
Qty. per Master Carton	1 pc.	

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The HR-S101 is a combination of the bible-sized USB DAC Amplifier, AI-101DA and a pair of LS-101 speakers, designed all-in-one for the next generation, who mainly use a computer and smartphone.

The AI-101DA allows users to enjoy both high-resolution audio streaming from a computer, and high-quality wireless audio streaming from a smartphone via Bluetooth® aptX® codec.

In addition to a USB audio input and Bluetooth® connection, the AI-101DA also employs a pair of optical digital audio inputs and an analog audio input for traditional audio players like CD player or portable audio player, just in case.

The secrets of the next-gen audio system are not only the versatility of its audio inputs, but the tech under its aluminum skin utilizes the latest DSP-based technology "HR Loudness" to maximize comprehensive sound performance, combining the AI-101DA and the LS-101.
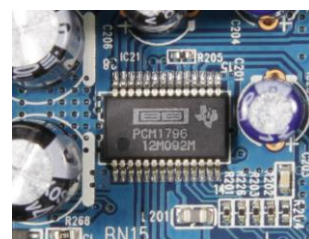
The AI-101DA's compact body enables convertible layout, horizontal or vertical to fit with tiny space near TV stand or STB, while TEAC's iconic side guard bars give a professional finish.

■ Defining the Micro System

● USB DAC for High-resolution Audio Streaming

The main unit employs a USB Audio Input that allows users to connect to a computer and process high-resolution audio of up to 192kHz/24-bit by on-board D/A converter PCM1796 by BurrBrown. The asynchronous connection minimizes jitter noise generated by the computer, while the up-conversion function refines incoming digital audio to make it as smooth as possible, even from CD-based audio tracks.

● High quality Wireless Audio Streaming by Bluetooth® aptX® Codec

The main unit supports Bluetooth® wireless audio streaming with an aptX® codec. Users can transmit high-quality audio wirelessly from their smartphone to the AI-101DA.

● HR Loudness for Massive Sound Performance

As the heart of audio system, the main unit employs a class-D power amplifier that delivers 26W + 26W of output from a bible size cabinet. When the HR Loudness – a DSP-based bass enhancement technology – is active, the amplifier produces an optimized speaker signal that maximizes the performance of the LS-101 speaker units included. The HR Loudness can be turned off when you connect to third-party speakers. The HR Loudness is effective for analog line-in signal as well, by converting to 96kHz/24-bit digital audio signal that is hi-resolution audio quality.

Of course, no cooling fan is employed for tranquility, so as to avoid background noise interference. A set of biding-post speaker terminals have been used for secure wiring.

● Total 4 Audio Inputs in a compact aluminum body

Specifically designed for audio streaming from a computer or smartphone, the
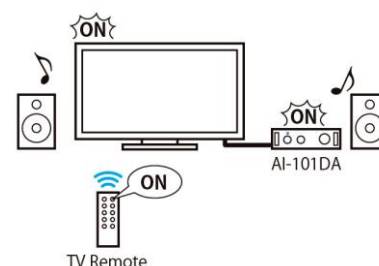
TEAC

main unit carries a USB audio input and Bluetooth® connection. However, it also carries a pair of optical audio inputs and conventional analog audio input in 1/8″ jack. The AI-101DA's bible-sized body made of aluminum enables convertible layout, horizontal or vertical, while TEAC's iconic side guard bars give a professional finish.

● **Excellent Headphone Performance**

As users demands for high quality headphone listening increase, TEAC have responded by including 100mW + 100mW of headphone output in the AI-101DA main unit to enable it to drive a wider range of headphones, including high impedance models.

● **Auto Power Saving – A smart connection with TV, PC, Satellite Receiver, and STB**

The AI-101DA provides a simple and smart way of power-on/off sequence when you watch TV. Thanks to its Auto Power Saving function, the AI-101DA automatically turns on when incoming digital audio signal is detected, and vice versa - it automatically turns off when incoming digital audio signal is inactive for 3 minutes -.   So, you can connect a TV, PC, Satellite Receiver, and STB such as Apple TV and Sonos CONNECT that equips optical digital audio output to enjoy simplified and smart operations.

The Auto Power Saving function can be engaged or disabled by user preference. However when it is disabled, it still automatically switches to standby mode if left without any operation for 30 minutes.

● **2-way Speaker System**

In order to reproduce high-resolution audio in the high frequency range, the speakers have a 20mm soft dome tweeter with a Chrome-plated diffuser and a 70mm cone woofer. The carefully designed bass reflex port on the rear panel generates stunning bass sounds from a convenient compact cabinet. The beautifully finished surface on the rear panel includes binding post type speaker terminals with an AWG8-graded speaker cable.

● **Free audio software for high-resolution audio playback**

TEAC supplies high-resolution audio playback software for both Windows and Macintosh. The software is available to download for free from the TEAC web site, and it allows users to enjoy high-resolution audio without complicated settings that may occur with third-party applications. This is another reason to choose TEAC!

■ Features at-a-glance

- USB DAC for PCM 192kHz/24-bit High-resolution Audio Streaming
- 2 Optical Audio Input supporting PCM 192kHz/24-bit
- Bluetooth® aptX® Wireless Audio Streaming
- 26W + 26W Built-in Class-D Power Amplifier
- BurrBrown PCM1796 D/A Converter

- Up-conversion up to 192kHz
- Asynchronous Transfer Mode
- 100mW + 100mW Headphone Output Power
- DSP-based HR Loudness for maximized audio performance, applicable to all incoming audio signal including Analog Line In

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- Aluminum Front Panel and Case
- Machined Aluminum Knobs
- Iconic Side Guard Bars
- Vertical and Horizontal Design
- Auto Power Saving / Auto Power On
- Muting

- Remote Control
- Binding-post Speaker Terminals
- Rear Bass-reflex type 2-way Speakers
- Subwoofer Pre-out for 2.1ch System
- RoHS Compliant

■ Specifications

Amplifier section

Max Output Power	26W + 26W (4 ohms, 1kHz, THD 10%, JEITA)
Rated Output Power	20W + 20W (4 ohms, 1kHz, THD 1%, JEITA)
Total Harmonic Distortions	0.01% (1kHz, 8 ohms, 1W)
Silgan-to Noise Ratio (LINE IN)	95dB (IHF-A/LPF 20kHz, 1kHz 2V Input)
Frequency Response	2Hz to 100kHz (-5dB)

DAC section

D/A Converter	BurrBrown PCM1796
Supported Formats	PCM
PCM	
Sampling Frequency	32k, 44.1k, 48k, 88.2k, 96k, 128k, 176.4k, 192kHz
Bit-length	16/24-bit
Asynchronous Transfer Mode	Supported
Up Conversion / A/D Conversion	

Up Conversion (On/Off Selectable)

Input Sampling Frequency	Up-converted Sampling Frequency
32kHz	64kHz
44.1kHz	88.2kHz
48kHz	96kHz
64kHz	128kHz
88.2kHz	176.2kHz
96kHz	192kHz
128kHz	128kHz
176.4kHz	176.4kHz
192kHz	192kHz

A/D Conversion

Input Signal	Digitized Signal for DSP processing
Analog Line In	96kHz / 24-bit

Supported OS	
Windows	Windows Vista, Windows 7, Windows 8, Windows 8.1
Macintosh	Lion (OS X10.7), Mountain Lion (OS X 10.8), Mavericks (OS X 10.9)

Bluetooth® section

Bluetooth® Version	2.0
Bluetooth® Class	Class 2（Range: approx. 10m/33ft.）
Supported Profile	A2DP, AVRCP
Supported Codec	aptX®, SBC, AAC

Audio Inputs/Outputs

Digital Inputs	
USB	USB A Type x 1
Optical	TOS Link x 2
Input Level	-24.0dBm to -14.5dBm peak

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Supplementary New Product Information (SNPI)

TEAC

Analog Input
    LINE IN   x 1
Speaker Output
    Speaker Terminals   Binding-post
    Supported Impedance   4 to 8 ohms
Subwoofer Pre-out
    Subwoofer Pre-out   RCA Pin Jack
Headphone Output
    Headphone Jack   1/8" (3.5mm) Stereo Mini Jack
    Output Power   100mW + 100mW (32 ohms loaded, 1kHz)
    Total Harmonic Distortions   0.005%

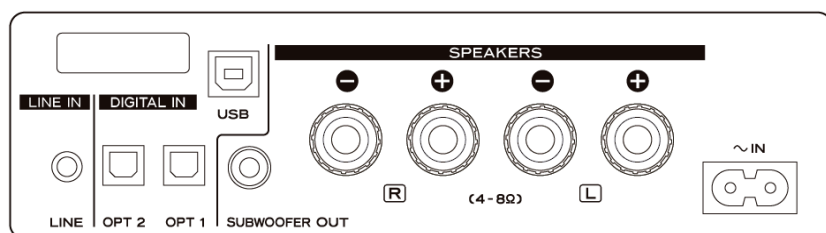## Speaker section (LS-101)

Speakers: 2-way 2-speakers, Rear Bass-reflex
    Units
       Tweeter   20mm Soft Dome
       Woofer   70mm Cone
Max Input Power   35W
Rated Input Power   25W
Impedance   4 ohms
Sensitivity   87dB/W/m
Frequency Response   65Hz to (TBA)
Crossover Frequency   12kHz
Cabinet Capacity   2 Liter / 122 cubic inch

General

Power: AC 120V 60Hz (US/Canada)
                        AC 240V 50Hz (UK/Europe)
Power Consumption   28W (0.5W at Standby)
Overall Dimensions (W x H x D)
    Main Unit (AI-101DA)   182 x 53 x 191 mm / 7.2" x 2.1" x 7.5"
    Speaker (LS-101)   116 x 182 x 175 mm / 4.6" x 7.2" x 6.9"
Weight:
    Main Unit (AI-101DA)   1.2 kg / 2.6 lbs.
    Speaker (LS-101)   1.7 kg / 3.8 lbs. per piece
Accessories: Power Cord,
                        Remote Control (RC-1318),
                        AAA Batteries x 2
                        Rubber Feet x 4
                        Speaker Cables (2m / 6.6ft) x 2
                        Owner's Manual (including Warranty Card)
    Required Driver Software
      Windows   TEAC Driver (Free Download from TEAC Website)
      Macintosh   none (no driver software required)

    Optional Software (Free)
      Windows   TEAC HR Audio Player for Win (Free download from TEAC Website)
      Macintosh   TEAC HR Audio Player for Mac (Free download from TEAC Website)

■ Rear Panel

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